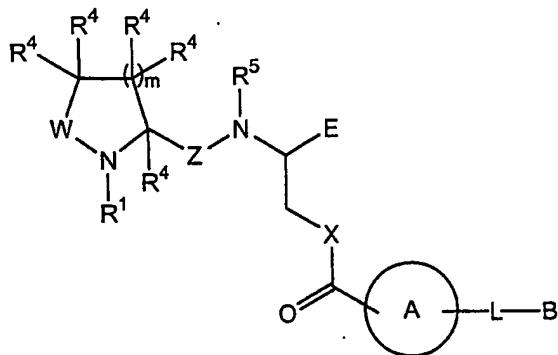


CLAIMS

1.- A compound of general formula I:



5 wherein:

R¹ represents -SO₂R², -COR² or -CH₂R³;

R² represents C₁₋₈ alkyl, C₂₋₈ alkenyl or C₂₋₈ alkynyl, which can be optionally substituted with one or more groups R^a, or R² represents Cy, CyC₁₋₄ alkyl, CyC₂₋₄ alkenyl or CyC₂₋₄ alkynyl, where the groups Cy can be optionally substituted with 10 one or more groups R^b;

R³ represents hydrogen, C₁₋₈ alkyl, C₂₋₈ alkenyl or C₂₋₈ alkynyl, where the groups C₁₋₈ alkyl, C₂₋₈ alkenyl and C₂₋₈ alkynyl can be optionally substituted with one or more groups R^c, or R³ represents Cy or CyC₁₋₄ alkyl, where the groups Cy can be optionally substituted with one or more groups selected from R^c and R^d;

15 each R⁴ independently represents hydrogen, C₁₋₈ alkyl, Cy or CyC₁₋₄ alkyl, where the C₁₋₈ alkyl group can be optionally substituted with one or more groups R^c and where the groups Cy can be optionally substituted with one or more groups selected from R^c and R^d;

W represents -CR⁴R⁴- when R¹ is -SO₂R² or -COR², or W represents -CO- when R¹ is -CH₂R³;

Z represents -CO- or -CS-;

E represents -COOR⁶, -CONR⁷R⁸ or 5-tetrazolyl;

X represents -CH₂- or -NR⁵-;

each R⁵ independently represents hydrogen or C₁₋₄ alkyl;

25 R⁶ represents hydrogen, C₁₋₈ alkyl, C₃₋₇ cycloalkyl or aryl, where the C₁₋₈ alkyl group can be optionally substituted with a group selected from C₃₋₇ cycloalkyl, aryl, -OR⁹, -OCOR^d, -OCOOR^d, -COOR⁹ and -NHCOR⁹ and the aryl

groups can be optionally substituted with one or more groups R^b;

R⁷ represents hydrogen, C₁₋₈ alkyl, C₃₋₇ cycloalkyl, aryl or -SO₂R^d, where the C₁₋₈ alkyl group can be optionally substituted with a group selected from C₃₋₇ cycloalkyl, aryl, -SO₂R^d, -COOR^g and -COR^d;

5 R⁸ represents hydrogen or C₁₋₈ alkyl;

or R⁷ and R⁸ together with the nitrogen atom to which they are bound can form a cycle Het¹;

A represents C₃₋₇ cycloalkyl or Het¹, which can be optionally substituted with one or more groups selected from oxo, C₁₋₈ alkyl and C₁₋₈ haloalkyl;

10 L represents -(CR⁹R⁹)_n-;

each R⁹ independently represents hydrogen or C₁₋₄ alkyl;

B represents:

i) C₃₋₇ cycloalkyl, Het¹ or Het², which can be optionally substituted with one or more groups selected from oxo, R^b and Cy optionally substituted with one or 15 more groups R^b; or

ii) a group selected from -COR^e, -NR^fR^f, -OR^f, -SR^f, -S(O)_pR^e, -CONR^fR^f, -NR^fCOR^f, -NR^fCONR^fR^f, -NR^fCSNR^fR^f, -NR^fCOOR^e, -OCOR^e, -OCONR^fR^f, -NR^fSO₂R^e and -SO₂NR^fR^f;

m represents 0 or 1;

20 n represents 1, 2, 3 or 4;

p represents 1 or 2;

each R^a independently represents halogen, -COR^d, -OR^g, -NR^gR^g, -COOR^g, -OCOR^d, -CONR^gR^g, -NR^gCOR^g, -OCONR^gR^g or -NR^gCOOR^d;

each R^b independently represents a group R^a, -NO₂, -SR^g, -S(O)_pR^d or C₁₋₈

25 alkyl optionally substituted with one or more groups R^c;

each R^c independently represents halogen, -OR^h or -NR^hR^h;

each R^d independently represents C₁₋₈ alkyl, C₃₋₇ cycloalkyl or aryl, which can be optionally substituted with one or more groups R^c;

each R^e independently represents C₁₋₈ alkyl, C₂₋₈ alkenyl or C₂₋₈ alkynyl,

30 which can be optionally substituted with one or more groups R^a, or R^e represents Cy or CyC₁₋₄ alkyl, where the groups Cy can be optionally substituted with one or more groups selected from oxo, Cy* and R^b, and where the groups Cy* can be optionally substituted with one or more groups selected from oxo and R^b;

each R^f independently represents hydrogen or any of the meanings

described for R^e;

or two groups R^f placed on the same nitrogen atom can be attached to each other to form together with said nitrogen atom a cycle Het¹ which can be optionally substituted with one or more groups selected from oxo, Cy and R^b,

5 where the groups Cy can be optionally substituted with one or more groups selected from oxo and R^b;

each R^g independently represents hydrogen or any of the meanings described for R^d;

or two groups R^g placed on the same nitrogen atom can be attached to 10 each other to form together with said nitrogen atom a cycle Het¹ which can be optionally substituted with one or more groups selected from oxo, Cy and R^b, where the groups Cy can be optionally substituted with one or more groups selected from oxo and R^b;

each R^h independently represents hydrogen, C₁₋₈ alkyl, C₃₋₇ cycloalkyl or 15 aryl, where the groups C₁₋₈ alkyl, C₃₋₇ cycloalkyl and aryl can be optionally substituted with one or more halogen atoms;

Cy and Cy* independently represent aryl, C₃₋₇ cycloalkyl, Het¹ or Het²;

aryl in the above definitions represents phenyl or naphthyl;

Het¹ in the above definitions represents a saturated or insaturated non- 20 aromatic 5- to 7-membered monocyclic ring containing from one to four heteroatoms selected from N, O and S, which can be optionally fused to a phenyl, naphthyl or Het² ring, and which is chemically stable and obtainable through chemical synthesis; and

Het² in the above definitions represents an aromatic 5- to 7-membered 25 monocyclic or 9- to 11-membered bicyclic ring, which contains from one to four heteroatoms selected from N, O and S, and which is chemically stable and obtainable through chemical synthesis;

and the salts, solvates and prodrugs thereof.

2.- A compound according to claim 1 wherein R¹ represents -SO₂R².

30 3.- A compound according to claim 1 or 2 wherein R² represents aryl optionally substituted with one or more groups R^b.

4.- A compound according to any of claims 1 to 3 wherein all the groups R⁴ represent hydrogen.

5.- A compound according to any of claims 1 to 4 wherein R⁵ represents

hydrogen.

- 6.- A compound according to any of claims 1 to 5 wherein W represents $-CR^4R^4-$.
- 7.- A compound according to claim 6 wherein W represents $-CH_2-$.
- 8.- A compound according to any of claims 1 to 7 wherein Z represents $-CO-$.
- 5 9.- A compound according to any of claims 1 to 8 wherein E represents $-COOR^6$.
10. 10.- A compound according to claim 9 wherein E represents $-COOH$.
- 11.- A compound according to any of claims 1 to 10 wherein m represents 1.
- 12.- A compound according to any of claims 1 to 11 wherein X represents $-NH-$.
- 13.- A compound according to any of claims 1 to 11 wherein X represents $-CH_2-$.
- 10 14.- A compound according to any of claims 1 to 11 wherein X represents $-O-$.
15. 15.- A compound according to any of claims 1 to 14 wherein A represents piperidine or piperazine.
- 16.- A compound according to any of claims 1 to 15 wherein L represents $-(CH_2)_n-$.
- 15 17.- A compound according to claim 16 wherein L represents methylene or ethylene.
- 18.- A compound according to any of claims 1 to 17 wherein B represents Het^1 or Het^2 optionally substituted with one or more groups selected from oxo, R^b and Cy optionally substituted with one or more groups R^b .
- 20 19.- A compound according to claim 18 wherein B represents imidazopyridine optionally substituted with one or more groups selected from oxo, R^b and Cy optionally substituted with one or more groups R^b .
- 20 20.- A compound according to any of claims 1 to 17 wherein B represents $-NR^fR^f$, $-OR^f$, $-NR^fCOR^f$, $-NR^fCONR^fR^f$, $-NR^fCSNR^fR^f$, $-NR^fCOOR^e$ or $-OCONR^fR^f$.
- 25 21.- A compound according to claim 20 wherein B represents $-OCONR^fR^f$.
- 22.- A compound according to claim 21 wherein both groups R^f are attached to each other to form together with the nitrogen atom a cycle Het^1 , which can be optionally substituted with one or more groups selected from oxo, Cy and R^b , wherein the groups Cy can be optionally substituted with one or more groups selected from oxo and R^b .
- 30 23.- A compound according to claim 1 selected from:
methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-oxo-5-[4-(2-oxooxazolidin-3-ylmethyl)piperidin-1-yl]pentanoate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-proylamino]-5-oxo-5-[4-(1-pyrrolylmethyl)piperidin-1-yl]pentanoate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-(2,5-dimethylpyrrol-1-ylmethyl)piperidin-1-yl]-5-oxopentanoate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-[2-(dimethylamino)ethyl]piperazin-1-yl]-5-oxopentanoate;

10 methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-(2-ethylimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]-5-oxopentanoate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-oxo-2,3-dihydroimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]pentanoate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-(2-isopropylaminoimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]-5-oxopentanoate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[[4-(2-methylimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-ylcarbonyl]amino]propionate;

20 (dimethylaminomethyl)piperidin-1-ylcarbonyl]amino]propionate;

methyl (2S)-3-[[4-(1-piperidylmethyl)piperidin-1-ylcarbonyl]amino]-2-[N-tosyl-L-prolyl]aminopropionate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[4-(dimethylaminomethyl)piperidin-1-ylcarbonyloxy]propionate;

methyl (2S)-5-[4-[2-[(4-methylpiperazin-1-yl)carbonyloxy]ethyl]piperidin-1-yl]-5-oxo-2-[1-tosyl-L-prolylamino]pentanoate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-5-[4-[(diethylaminocarbonyloxy)methyl]piperidin-1-yl]-5-oxopentanoate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-(4-methylpiperazin-1-yl)carbonyloxymethyl]piperidin-1-yl]-5-oxopentanoate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamo] -3-

pyridyloxymethyl)piperidin-1-yl]pentanoate;
 methyl (2S)-5-[4-(4-methylpiperazin-1-ylmethyl)piperidin-1-yl]-5-oxo-2-[1-

tosyl-L-prolylamino]pentanoate;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-proylamino]-5-oxo-5-[4-(2-oxooxazolidin-3-ylmethyl)piperidin-1-yl]pentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-proylamino]-5-[4-(2-oxopyrrolidin-1-ylmethyl)piperidin-1-yl]-5-oxopentanoic acid;

5 (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-proylamino]-5-[4-(2-methylimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]-5-oxopentanoic acid;

(2S)-5-[4-(2-methylimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]-5-oxo-2-[1-tosyl-L-proylamino]pentanoic acid;

10 (2S)-5-[4-[[1-(2-ethoxyethyl)benzimidazol-2-yl]methyl]piperazin-1-yl]-5-oxo-2-[[1-tosyl-L-prolyl]amino]pentanoic acid;

(2S)-5-oxo-5-[4-(2-pyridylmethyl)piperazin-1-yl]-2-[[1-tosyl-L-prolyl]amino]pentanoic acid;

15 (2S)-5-oxo-5-[4-(1-oxoisoindolin-2-ylmethyl)piperidin-1-yl]-2-[[1-tosyl-L-prolyl]amino]pentanoic acid;

(2S)-5-oxo-5-[4-(2-thienylmethyl)piperazin-1-yl]-2-[[1-tosyl-L-prolyl]amino]pentanoic acid;

20 (2S)-5-[4-[(3-carboxypropionylamino)methyl]piperidin-1-yl]-5-oxo-2-[[1-tosyl-L-prolyl]amino]pentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-proylamino]-5-[4-(4-methylpiperazin-1-ylmethyl)piperidin-1-yl]-5-oxopentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-proylamino]-5-[4-[2-(4-morpholinyl)ethyl]piperidin-1-yl]-5-oxopentanoic acid;

25 (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-proylamino]-5-oxo-5-[4-(1-pyrrolylmethyl)piperidin-1-yl]pentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-proylamino]-5-[4-(2,5-dimethylpyrrol-1-ylmethyl)piperidin-1-yl]-5-oxopentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-proylamino]-5-[4-(dimethylaminomethyl)piperidin-1-yl]-5-oxopentanoic acid;

30 (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-proylamino]-5-[4-[2-(dimethylamino)ethyl]piperazin-1-yl]-5-oxopentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-proylamino]-5-[4-(2-ethylimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]-5-oxopentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-proylamino]-5-oxo-5-[4-(2-oxo-2,3-dihydroimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]pentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-(2-isopropylaminoimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]-5-oxopentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-(2-isopropylaminoimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]-5-oxopentanoic acid;

5 (diethylaminomethyl)piperidin-1-yl]-5-oxopentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-3-[[4-(2-methylimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]carbonyl]amino]propionic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-(2-methylimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]pentanoic acid;

10 [(dimethylaminoacetyl)amino]methyl)piperidin-1-yl]-5-oxopentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-[2-(diethylamino)ethyl]piperidin-1-yl]-5-oxopentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-oxo-5-[4-[2-(1-pyrrolidinyl)ethyl]piperidin-1-yl]pentanoic acid;

15 (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-[2-[(4-methylpiperazin-1-yl)carbonyloxy]ethyl]piperidin-1-yl]-5-oxopentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-oxo-5-[4-(1-piperidylmethyl)piperidin-1-yl]pentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-3-[[4-(20 dimethylaminomethyl)piperidin-1-yl]carbonyl]amino]propionic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-[(ethylamino)methyl]piperidin-1-yl]-5-oxopentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-[(4-methylpiperazin-1-yl)carbonylamino]methyl]piperidin-1-yl]-5-oxopentanoic acid;

25 (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-3-[[4-(dimethylaminomethyl)piperidin-1-yl]carbonyloxy]propionic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-oxo-5-[4-(4-pyridylaminomethyl)piperidin-1-yl]pentanoic acid;

(2S)-5-[4-[2-[(4-methylpiperazin-1-yl)carbonyloxy]ethyl]piperidin-1-yl]-5-oxo-2-[1-tosyl-L-prolylamino]pentanoic acid;

30 (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-[(4-methylpiperazin-1-yl)carbonyloxymethyl]piperidin-1-yl]-5-oxopentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-oxo-5-[4-(4-pyridyloxymethyl)piperidin-1-yl]pentanoic acid;

(2S)-5-[4-(4-methylpiperazin-1-ylmethyl)piperidin-1-yl]-5-oxo-2-[1-tosyl-L-prolylamino]pentanoic acid;

(2S)-5-[4-(dimethylaminomethyl)piperidin-1-yl]-5-oxo-2-[1-tosyl-L-prolylamino]pentanoic acid;

5 (2S)-3-[[4-(1-piperidylmethyl)piperidin-1-ylcarbonyl]amino]-2-[N-tosyl-L-prolyl]aminopropionic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-[4-[(N-ethyl-N-isobutoxycarbonylamino)methyl]piperidin-1-yl]-5-oxopentanoic acid;

10 methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[[4-[2-[(4-methylpiperazin-1-yl)carbonyloxy]ethyl]piperidin-1-ylcarbonyl]amino]propionate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[[4-[2-[(4-methylpiperidin-1-yl)carbonyloxy]ethyl]piperidin-1-ylcarbonyl]amino]propionate;

15 methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[[4-[2-[(4-ethoxycarbonyl)piperazin-1-yl]carbonyloxy]ethyl]piperidin-1-ylcarbonyl]amino]propionate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[[4-[2-[(4-pyridyl)piperazin-1-yl]carbonyloxy]ethyl]piperidin-1-ylcarbonyl]amino]propionate;

20 methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[[4-[2-[(cis-2,6-dimethylmorpholin-4-yl)carbonyloxy]ethyl]piperidin-1-ylcarbonyl]amino]propionate;

25 methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[[4-[2-[(4-ethylimidazo[4,5-c]pyridin-1-yl)methyl]piperidin-1-ylcarbonyl]amino]propionate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-oxo-5-[4-[2-(4-phenylpiperazin-1-ylcarbonyloxy)ethyl]piperidin-1-yl]pentanoate;

methyl (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-oxo-5-[4-(2-propylimidazo[4,5-c]pyridin-1-ylmethyl) piperidin-1-yl]pentanoate;

30 (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[[4-[2-[(4-methylpiperazin-1-yl)carbonyloxy]ethyl]piperidin-1-ylcarbonyl]amino]propionic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-oxo-5-[4-[2-(4-phenylpiperazin-1-ylcarbonyloxy)ethyl]piperidin-1-yl]pentanoic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[[4-[2-[(4-methylpiperidin-1-yl)carbonyloxy]ethyl]piperidin-1-ylcarbonyl]amino]propionic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolylamino]-5-oxo-5-[4-(2-propylimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]pentanoic acid;

5 (2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[[4-[2-[[4-(ethoxycarbonyl)piperazin-1-yl]carbonyloxy]ethyl]piperidin-1-ylcarbonyl]amino]propionic acid;

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[[4-[2-[[4-(4-pyridyl)piperazin-1-yl]carbonyloxy]ethyl]piperidin-1-ylcarbonyl]amino]propionic

10 acid;

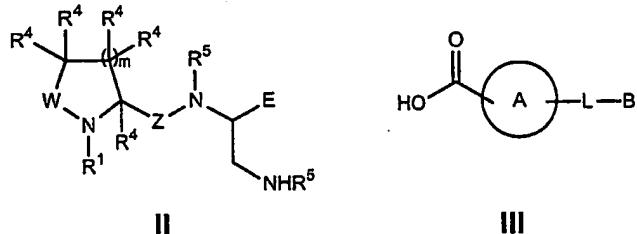
(2S)-2-[1-(3,5-dichlorophenoxy)sulfonyl]-L-prolyl]amino-3-[[4-[2-[(*cis*-2,6-dimethylmorpholin-4-yl)carbonyloxy]ethyl]piperidin-1-ylcarbonyl]amino]propionic acid;

(2S)-

(2S)-2-[1-(3,5-dichlorophenylsulfonyl)-L-prolyl]amino-3-[[4-(2-ethylimidazo[4,5-c]pyridin-1-ylmethyl)piperidin-1-yl]carbonyl]amino]propionic acid; or a salt, solvate or prodrug thereof.

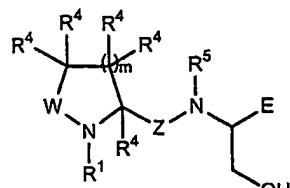
24.- A process for preparing a compound of formula I according to claim 1, which comprises:

(a) when in a compound of formula I X represents $-\text{NR}^5-$, reacting an amine of formula II with an acid of formula III

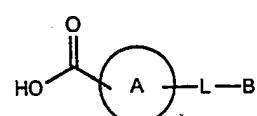


wherein R¹, R⁴, R⁵, W, Z, E, A, L, B and m have the meaning described in claim 1;
or

(b) when in a compound of formula I X represents $-O-$, reacting an alcohol of formula IV with an acid of formula III



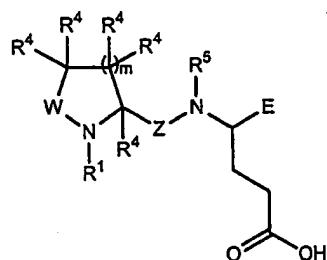
IV



III

wherein R^1 , R^4 , R^5 , W , Z , E , A , L , B and m have the meaning described in claim 1;
or

5 (c) when in a compound of formula I X represents $-CH_2-$ and cycle A is bound to
the carbonyl group through a nitrogen atom, reacting an acid of formula V with an
amine of formula VI



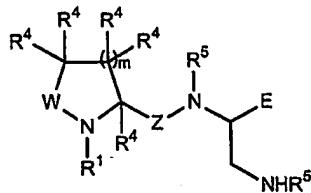
V



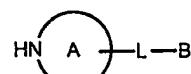
VI

wherein R^1 , R^4 , R^5 , W , Z , E , A , L , B and m have the meaning described in claim 1;
or

10 (d) when in a compound of formula I X represents $-NR^5-$ and cycle A is bound to
the carbonyl group through a nitrogen atom, reacting an amine of formula II
previously activated with an activating agent suitable for the preparation of ureas
with an amine of formula VI

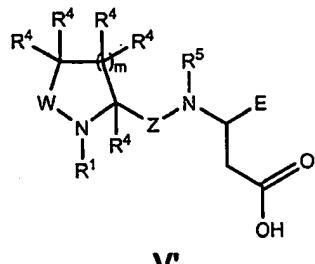


II

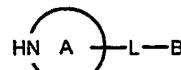


VI

15 wherein R^1 , R^4 , R^5 , W , Z , E , A , L , B and m have the meaning described in claim 1,
or reacting an amine of formula VI previously activated with an activating agent
suitable for the preparation of ureas with an amine of formula II, or alternatively
reacting a compound of formula V' previously activated with an azide suitable for
a Curtius rearrangement with an amine of formula VI



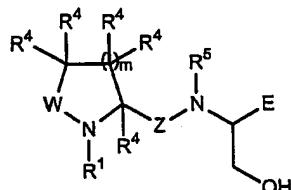
V



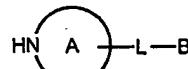
VI

wherein R¹, R⁴, R⁵, W, Z, E, A, L, B and m have the meaning described in claim 1;
or

5 (e) when in a compound of formula I X represents -O- and cycle A is bound to the carbonyl group through a nitrogen atom, reacting an alcohol of formula IV previously activated with an activating agent suitable for the preparation of carbamates with an amine of formula VI



IV

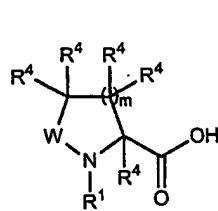


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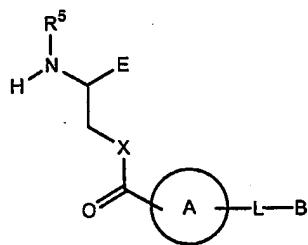
VI

wherein R¹, R⁴, R⁵, W, Z, E, A, L, B and m have the meaning described in claim 1;
10 or

(f) when in a compound of formula I Z represents -CO-, reacting an acid of formula VII with an amine of formula XVII

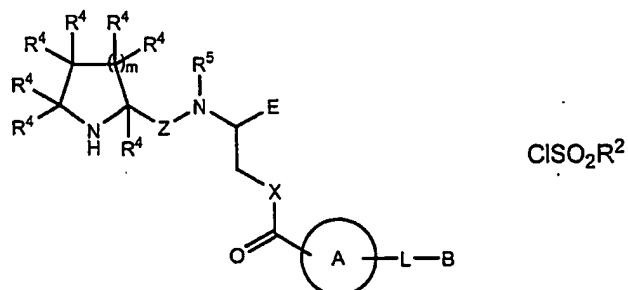


VII



XVII

wherein R¹, R⁴, R⁵, W, E, X, A, L, B and m have the meaning described above; or
15 (g) when in a compound of formula I W represents -CR⁴R⁴- and R¹ represents -SO₂R², reacting a compound of formula XVIII with a sulfonyl chloride of formula IX

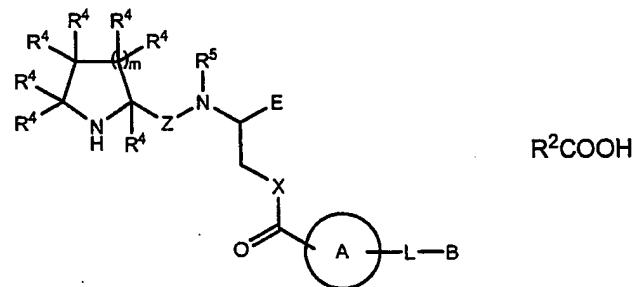


xviii

IX

wherein R^2 , R^4 , R^5 , Z , E , X , A , L , B and m have the meaning described in claim 1;
or

(h) when in a compound of formula I W represents $-\text{CR}^4\text{R}^4-$ and R^1 represents $-\text{COR}^2$, reacting a compound of formula XVIII with an acid of formula X

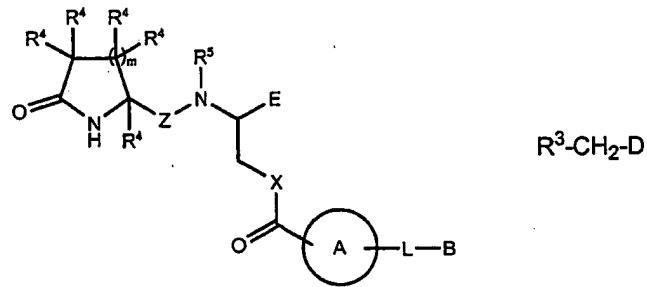


xviii

X

wherein R^2 , R^4 , R^5 , Z , E , X , A , L , B and m have the meaning described in claim 1;
or

10 (i) when in a compound of formula I W represents -CO- and R^1 represents $\text{-CH}_2\text{R}^3$, reacting a compound of formula XIX with a compound of formula XI



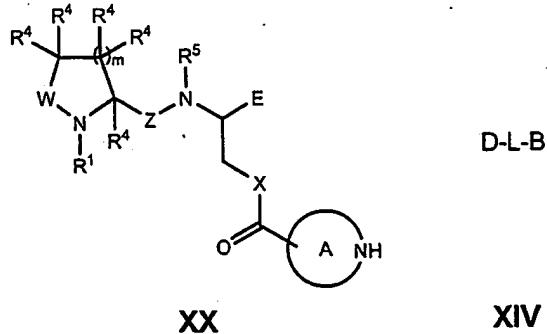
XIX

xi

wherein R^2 , R^4 , R^5 , Z , E , X , A , L , B and m have the meaning described in claim 1 and D represents a good leaving group; or

15 (j) when in a compound of formula I cycle A is bound to the -L-B moiety through a ring nitrogen atom, alkylating the secondary amine of a compound of formula XX

with a compound of formula XIV



wherein R^1 , R^4 , R^5 , W, Z, E, X, A, L, B and m have the meaning described in claim 1 and D represents a good leaving group; or

5 (k) transforming, in one or a plurality of steps, a compound of formula I into another compound of formula I; and

(l) if desired, after the above steps, reacting a compound of formula I with an acid or a base to give the corresponding addition salt.

10 25.- A pharmaceutical composition which comprises an effective amount of a compound of formula I according to any of claims 1 to 23 or a pharmaceutically acceptable salt, solvate or prodrug thereof and one or more pharmaceutically acceptable excipients.

15 26.- Use of a compound of formula I according to any of claims 1 to 23 or a pharmaceutically acceptable salt, solvate or prodrug thereof for the manufacture of a medicament for the treatment or prevention of diseases mediated by integrins α_4 .

20 27.- Use according to claim 26 wherein the disease mediated by integrins α_4 is selected from inflammatory diseases, immune diseases, autoimmune diseases, degenerative disorders, tumor metastasis and ischemia-reperfusion disorders.

28.- Use of a compound of formula I according to any of claims 1 to 23 or a pharmaceutically acceptable salt, solvate or prodrug thereof for the manufacture of a medicament for the treatment or prevention of inflammatory, immune and/or autoimmune diseases.

25 29.- Use according to claim 28 wherein the inflammatory, immune and/or autoimmune disease is selected from diseases with an allergic component, inflammatory diseases with an autoimmune component, inflammatory bowel disease, inflammatory processes having an alloimmune origin caused by

transplants or rejections, inflammatory processes that develop as a consequence of blood vessel revascularization treatments, encephalomyelitis, hepatitis, bronchitis, vasculitis and atherosclerosis.

- 30.- Use according to claim 29 wherein the disease with an allergic component is
5 selected from asthma, allergic rhinitis, allergic dermatitis and allergic conjunctivitis.
- 31.- Use according to claim 29 wherein the inflammatory disease with an autoimmune component is selected from rheumatoid arthritis, psoriatic arthritis, multiple sclerosis, psoriasis and diabetes.
- 32.- Use according to claim 29 wherein the inflammatory bowel disease is
10 selected from Crohn's disease and ulcerative colitis.
- 33.- Use of a compound of formula I according to any of claims 1 to 23 or a pharmaceutically acceptable salt, solvate or prodrug thereof for the manufacture of a medicament for the treatment or prevention of degenerative disorders.
- 34.- Use according to claim 33 wherein the degenerative disorder is selected from
15 Alzheimer's disease and arthrosis.
- 35.- Use of a compound of formula I according to any of claims 1 to 23 or a pharmaceutically acceptable salt, solvate or prodrug thereof for the manufacture of a medicament for the treatment or prevention of tumor metastasis.
- 36.- Use of a compound of formula I according to any of claims 1 to 23 or a pharmaceutically acceptable salt, solvate or prodrug thereof for the manufacture
20 of a medicament for the treatment or prevention of ischemia-reperfusion disorders.
- 37.- Use according to claim 36 wherein the ischemia-reperfusion disorder is selected from acute coronary diseases and stroke.